

Our Saviors Lutheran Church
1035 Carol Lane Lafayette

*** License Testing 6pm ***

Meeting Begins 7:00pm

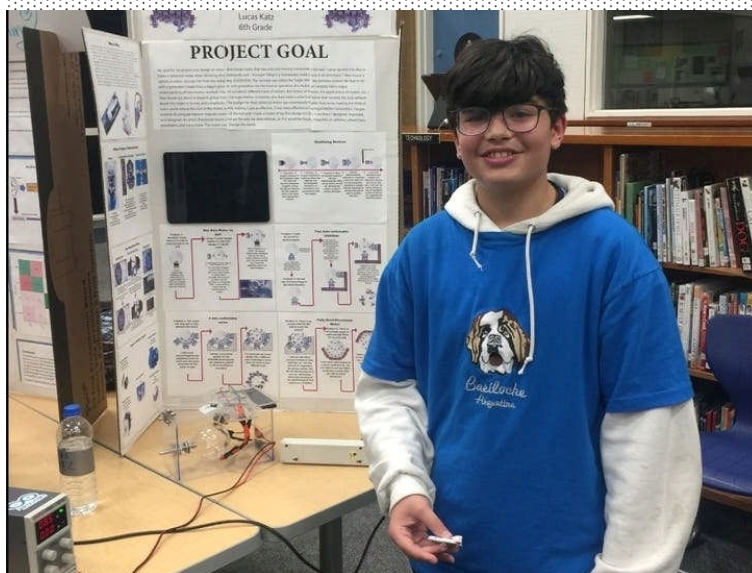
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THIS MONTH'S MEETING

UNDERWATER WIRELESS TRANSMISSION OF DATA AND ENERGY

BY LUCAS KATZ



(Photo courtesy the Society for Science and the Public)

The meeting will also be held virtually, via the Zoom video system. The meeting access ID and password will be distributed via groups.io email announcement. The meeting will also be shown on the club digital amateur television repeater, which is live streamed at: <http://w6cxatv.mdarc.org/> and also live streamed on YouTube on the **Media MDARC** channel.

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National Preparedness Month

Prepare to Protect



SEPTEMBER IS NATIONAL PREPAREDNESS MONTH

www.ready.gov

amazonsmile
You shop. Amazon gives.

When you purchase at Amazon dot com smile, a portion of your purchase is donated to our club.

Go to:

<https://smile.amazon.com/ch/23-7072059>

ALL MEMBERS ARE INVITED TO JOIN THE FREE CLUB E-MAIL GROUP AT:

<https://groups.io/g/MDARC>

Mount Diablo Amateur Radio Club W6CX
P.O. Box 23222 Pleasant Hill, CA 94523
(925) 288-1730

The Carrier is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

President - Larry Bradley, KK6QPE
Vice President - Jan Kulisek, KM6NFC
Secretary - Brian Lotter, KM6NGS
Treasurer - Cathi Walton, K2CJW
Emergency Coordinator - Ron Bunch, W4FEK

Directors At Large

Trevor Hall, WA6JAU Cal Vasquez, K6VT
 Eric Ferguson, KA6USJ Mike Warren, W6MEW

Membership Chair - Jan Kulisek, KM6NFC
mdarcmembership@mdarc.org

PACIFICON 2021

Chair: Julie Mah, WJ8MAH
Registration: Debbie Deeble, KN6DOM
Treasurer: Jim Siemons, W6LK
Secretary: Jan Kulisek, KM6NFC

COMMITTEE CHAIRS AND COORDINATORS

Annual Auction - Jim Siemons, W6LK
Communications Trailer - Mike Warren, W6MEW
Communications Van MDARC-1 - Jim Tittle, K6SOE
Digital Media - Mike Patterson, N6JGA
Education & Training - John Primus, AF6RJ
Field Day - Larry Loomer, KI6LNB
Good & Welfare - Diana Sage, KA6TZU
Holiday Dinner - Misa Siemons, KJ6BUE
License Testing - Larry Loomer, KI6LNB
Outreach - Dick Wade, WM6G
Public Service - Lisa Anthony, K6PIA
Radio Equipment Lending - Cal Vasquez, K6VT
Refreshments - Elizabeth Styles, KG6HLV
Repeater Trustee W6LGW - Dick Brown, KT6X
Repeater Trustee W6CX - Jim Tittle, K6SOE
Scholarship - Janice Fujii, KG6VTD
Technical Committee - Jim Tittle, K6SOE

The Carrier Newsletter

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President's Message

September 2021

MDARC Family,



They say that a picture is worth a thousand words. I was looking for just the right picture to say how I feel these days and came across this cartoon which I modified to my purpose. Yes, we can all agree that it has been a long time dealing with this Covid-19 pandemic, but we can also say that we've come a long way towards recovery. I know we are not there yet and for many of us, our lives are still in a state of "disruption" and uncertainty. I am not going to pontificate as to why I think where we are in delaying to

reach the pandemic-over finish line, but will say that if you have not been vaccinated, then I encourage you to do so because that is your best means of prevention or at the very least, lessening of severity should you become infected.

In my President's Message for August I mentioned that our Amateur Extra License Course was just starting. Well, we have now completed five of our ten class sessions integrating both in-person attendance at Clayton Valley Presbyterian Church and virtually via Zoom. And yes, we've had some "growing pains" and a learning curve to tackle, but are definitely making headway for integrating the two groups. Be sure to thank these fellow club members for their fortitude and skills in successfully providing this integration to our students: Mike Patterson, N6JGA; Mike Warren, W6MEW; Gene Sylls, KG6EYE; and John Kearney, KM6ZJT.

We hope that what we are learning now about integrating live and virtual will be something in our training toolbox for 2022.

Certainly this Amateur Extra Course would not be possible without the dedication of our chapter presenters: Larry Loomer, KI6LNB; Lauren Styles, WA6CIE; Mike

Patterson, N6JGA; Jim Blodgett, KI6JB; Brian Lotter, KM6NGS; Dick Wade, WM6G; Trevor Hall, WA6JAU; Kristen McIntyre, K6WX; and Dave Piersall, N6ORB.

Pacificon anyone? Keep checking www.Pacificon.org for the latest information regarding public health requirements for attending our star event in October. Although not yet mandated by Contra Costa County, I would advise having your vaccination record handy or if not vaccinated, then recent proof of a negative Covid test. Don't try to say "Sure, I'm vaccinated" because self-attestation will unlikely be accepted, so have that vaccination record or test documentation available to show if required. Stay tuned to the website.

Here are two websites of interest:

Contra Costa Health Services: [Health Orders | Coronavirus \(cchealth.org\)](https://www.cchealth.org/HealthOrders/Coronavirus)

California Department of Public Health: [Beyond the Blueprint Framework for Industry and Business Sectors, with Limited Exceptions \(ca.gov\)](https://www.cdph.ca/Programs/CID/DCDC/Pages/Immunization/COVID-19/Pages/Beyond-the-Blueprint-Framework-for-Industry-and-Business-Sectors-with-Limited-Exceptions.aspx)

Elections: It is soon coming time to cast your ballots for those who you believe will best serve and govern MDARC in 2022.

Thanks again to these club members who again have agreed to serve on the Election Committee.

Dave Piersall, N6ORB	dfp@pacbell.net
Dick Wade, WM6G	dickwade146@gmail.com
Pete Harris, KE6ZIW	pharris125@comcast.net

The Election Committee is accepting nominations for these club officers, so please email them your nominees so they can place them on the ballot to be sent in early November.

[Tip: be sure to check with your nominee that they wish to be placed on the ballot]

MDARC Officers

President
Vice President
Secretary
Treasurer
Emergency Coordinator
Director at Large (2)

Club Meeting: Friday, 09/17/21. Again, we will be providing a hybrid-virtual attendance option. Unlike in the “old days”, when the meeting started at 7:30PM, our meeting will start at 7:00, but of course the doors to the Main Hall at Our Savior Lutheran Church in Lafayette are open earlier for chatting with one another. For those in Zoomland, we will begin to allow you to join about 6:30.

Larry KI6LNB and VEs will be providing license testing starting at 6:00PM.

.....

The **Nyquist–Shannon sampling theorem** is a theorem in the field of signal processing which serves as a fundamental bridge between continuous-time signals and discrete-time signals. It establishes a sufficient condition for a sample rate that permits a discrete sequence of *samples* to capture all the information from a continuous-time signal of finite bandwidth.



Harry Nyquist was a Swedish physicist and electronic engineer who made important contributions to communication theory.

Born: Feb. 7, 1889, Nilsby, Sweden

Died: April 4, 1976, Harlingen, Texas, U.S



Claude Elwood Shannon was an American mathematician, electrical engineer, and cryptographer known as "the father of information theory". Shannon founded information theory with a landmark paper, "A Mathematical Theory of Communication", which he published in 1948.

Born: April 30, 1916

Died: February 24, 2001

"The greatest motivational act one person can do for another is to listen." Roy E. Moody
73,

Larry Bradley KK6QPE; 09/04/21

OUR NEXT PUBLIC SERVICE EVENT OF 2021 IS HERE !!

The Firetrails 100k running race in the Berkeley Hills and the Oakland Hills has been scheduled for September 25, 2021.

We did such a good job with the communication assignment a couple of weeks ago, that Adam of Scena Performance has invited us back for an even bigger race: The Firetrails 100k race.

For those of you who are new to the race, the Firetrails 100k is the big brother of the Skyline 50k race that was held a couple of weeks ago, and uses much of the same route.

The course starts and finishes south of Lake Chabot and travels on an out-and-back route, through the East Bay Regional Parks to Tilden Park in Berkeley, and back.

We are looking for experienced communicators and beginning hams, who will be teamed up at one of ten check points along the running route. We will report on the bib numbers of the first three male runners and the first three female runners, as well as the bib numbers of the last five runners. We will also report to net control the bib numbers of any dropped-out runners and report on the supply needs of the aid station to which we are assigned.

All assignment locations are drive-up locations, or very close to parking lot locations.

We have been asked to provide communications for this event since cell phone coverage on the race route is weak to non-existent. Reliable communication is a must for this type of activity in this remote area.

Public service events are a good way for hams of all experience levels to Get-on-the-Air, to practice your communication talents, to serve a worthwhile cause, and to learn and practice the protocols which exist for effective emergency communication.

To be added to the ham radio roster, please contact Larry Loomer KI6LNB, at <larylloomer@yahoo.com>.

When you reply, please specify your experience level: new, some experience or lots of experience. The event runs from 0500 hours (5:00 AM) until 2200 hours (10:00 PM).

There are ten aid stations to choose from. Contact Larry for the list.

Larry will try to accommodate your requested assignment on a first come, first served basis. Thank you for considering joining us for this event.

— *Larry Loomer, KI6LNB*



The Oakland Aviation Museum presents **Open Cockpit Day on Sunday, 12 September 2021. All aviation fans and amateur radio operators are invited to attend.**

Museum club station KN6ABD will be on the air on HF and VHF frequencies. QSL cards will be available.

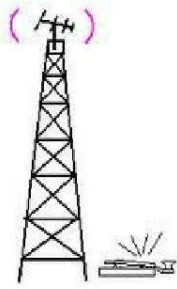
See aircraft from the Vin-Fiz to modern military.

The Museum will be open from 10 AM to 4 PM, so there's plenty of time to come over, check everything out, grab food and a souvenir from the gift shop, and have fun!

Please mask appropriately, and I hope to see you there!

Submitted by Peter Krarup, KK6YGH





Fifteenth Annual Sacramento Valley Hamfest



Saturday, Sept 18, 2021
0700 to 1200 Hours



Presented by Western Placer Amateur Radio Club

65 McBean Park Dr. (Hwy. 193) Lincoln CA



Bandstand Parking Lot
License Exam Sessions



Drawing Prizes



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Ham Radio Related Stuff Only

\$10 per space-Approximately 9' x 12'



Bring your own tables

COVID Restrictions May Apply



Hamfest Info at WWW.WPARC.US

Talk-in Frequency
147.300 (+) 67 Hz



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Valley of the Moon Amateur Radio Club

Presents

HAMFEST 2021

Saturday, October 2nd,
8:00 AM to 12:00 Noon

Featuring:

- Swap Meet (indoor and outdoor spaces)
- Breakfast (pancakes, sausage and eggs)
- VE Testing Session
- Station Demos
- Fox Hunt
- And more!



First Congregational Church of Sonoma

252 W Spain St, Sonoma

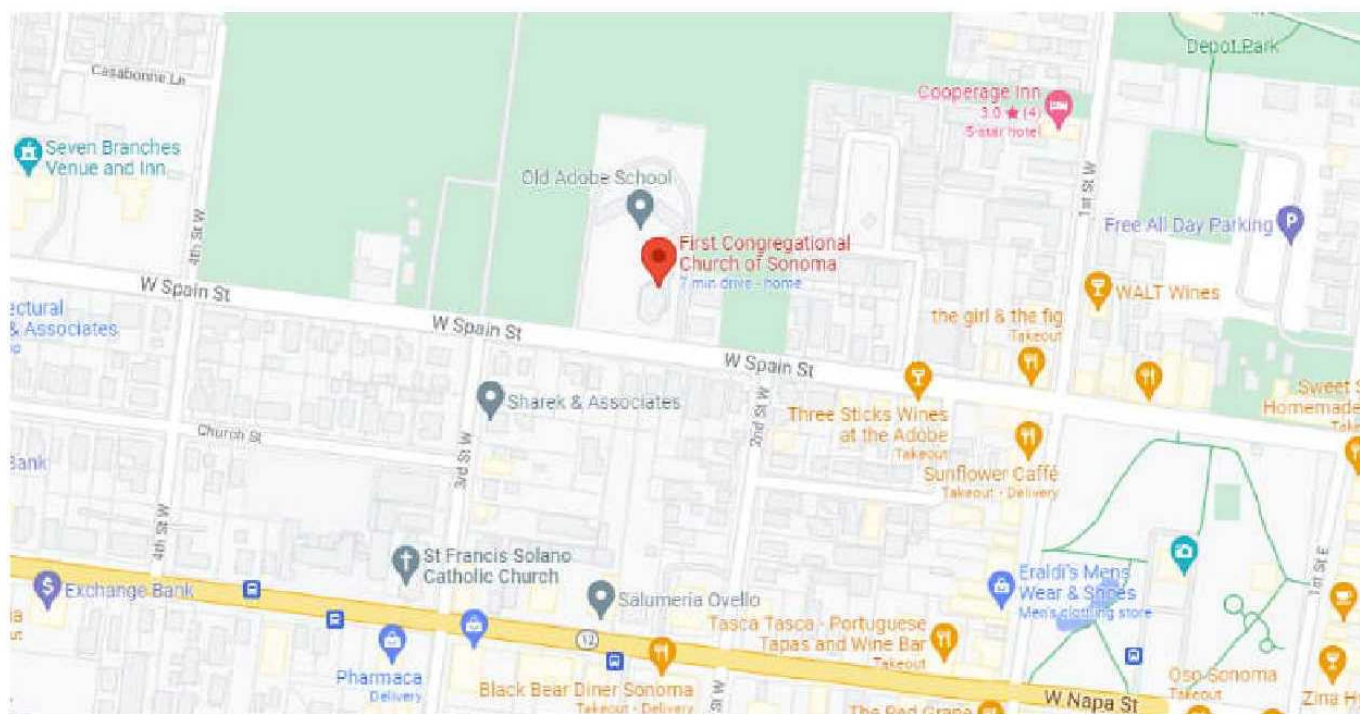
Talk in on 145.350 MHz (88.5 PL)

For info: valleyofthemoonarc@gmail.com

Admission: FREE

Breakfast: \$8.00

<http://www.vomarc.org>



PACIFICONSM 2021



Special Appearances
by Bob Heil

All Day Friday
Antenna Seminar

Saturday Breakfast
with Gordon West

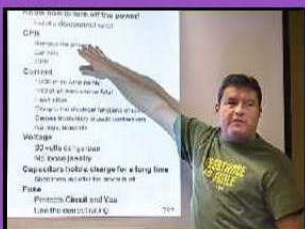
Scout JOTA-JOTI &
Merit Badge Class



Latest
Ham Radio
Equipment for Sale

Ham License Testing

One Day Technician
& General License
Prep Classes



ARRL PACIFIC DIVISION HAM RADIO CONVENTION

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Produced by the Mt. Diablo Amateur Radio Club

October 15, 16 & 17, 2021
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San Ramon, California 94583

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*Tickets at the door will cost \$30; 17 years old & under are free;
College Students with valid student ID (25 & under): \$5*

*** Some events have additional cost ***

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to ask for the Special Pacificon rate of \$149/night,
or reserve your room on-line at www.pacificon.org

Go to the Pacificon Website for
Events - Schedules - Registration
WWW.PACIFICON.ORG

*** Events are subject to change – check website ***

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Outstanding
Technical Forums

Sunday Swap Meet

Kit Building

Sunday
Ham Radio 101 & 201

Gordon West's
Ham Instructor Academy



Saturday Banquet
with Keynote Speaker
Kristen McIntyre

Sunday Digital
Academy

Get-On-The-Air
Special Events Station



MDARC Board of Directors Meeting July 12, 2021

Held at Zoom online

1. Call to Order: The meeting was called to order at 7:01 pm by Larry Bradley KK6QPE after it was determined that there was a quorum for conducting Club business.

2. Roll Call: Attendees via Zoom screen shot: **Officers:** Larry Bradley KK6QPE, President; Brian Lotter KM6NGS, Secretary; Cathi Walton K2CJW, Treasurer; Ron Bunch W4FEK, Emergency Coordinator; Mike Warren W6MEW, Director at Large; Trevor Hall WA6JAU, Director at Large; Eric Ferguson KA6USJ, Director at Large; Cal Vasquez, K6VT, Director at Large. **Committee Chairs/Coordinator:** Mike Patterson N6JGA; Jim Tittle K6SOE; Larry Loomer KI6LNB; Dick Wade WM6G; Julie Mah WJ8MAH; Lisa Anthony K6PIA **Guests:** Lauren Styles WA6CIE; Dave Billeci WA6UHA; Terry Buxton KK6KGX; Dennis Boyd K6AKL; Barb Whysong KJ6BAW.

3. Approval of Minutes from Last Meeting: The minutes of the June 7, 2021 meeting was approved without objection.

4. Adopt Tonight's Agenda: The agenda for this meeting was approved.

5. Officer reports:

a. President Larry Bradley KK6QPE – Nothing to report.

b. Vice-President Jan KM6NFC – In Prague.

c. Secretary Brian KM6NGS – Nothing to report.

d. Treasurer Cathi K2CJW presented a summary of the June 2021 monthly report and stated that the only real difference this month is that PACIFICON is starting to generate income. She then presented the detailed spreadsheet and noted that the PO Box rental went up to \$176 compared to \$116 for last year. The license fee for MDARC 1 for the coming year is \$296. Trevor WA6JAU asked where the license fee for the trailer is shown, Mike W6MEW said that he thinks that there is \$10 fee every 5 years. Cathi said that she will add a line to when it comes due. Cathi stated that she and Ron would be on the east coast from July 20th to August 10. She will prepare and send in the July report but that they will not attend the August Board meeting. Cathi requested that any reimbursement requests be sent to her before July 20th and stated that she will be able to handle them while she is gone. There were no further questions for Cathi.

6. Emergency Coordinator Report: Ron Bunch W4FEK reported that there had been no issues. There were no questions for Ron.

7. Directors at large reports:

Mike Warren W6MEW – no report

Trevor Hall WA6JAU – no report.

Eric Ferguson KA6USJ – no report.

Cal Vasquez K6VT –no report.

8. Committee Reports:

a. Education and Training: John Primus AF6RJ did not have a report for this month.

b. Pacificon: Julie WJ8MAH reported that we are in full force, Mike and Misa are doing an amazing job getting speakers and our vendors, the hotel is getting ready for us, so we are in full swing. Mike added not to forget Brian who has practically sold the place out in vendors. Julie thanked Cathi K2CJW for agreeing to be our volunteer coordinator. Cathi reminded Julie that she only volunteered for this year. There were no questions for Julie.

c. Digital Media: Mike Patterson N6JGA reminded the board that we are going to be forced by Google to change our websites over to the new Google sites system. Mike said that this will force some changes on our websites and that he will make the change in the next six weeks.

d. Outreach: Dick Wade WM6G had nothing to report.

f. Technical: Jim Tittle K6SOE reported that there was no technical meeting due to the holiday and that the repeaters are status quo, everything is working.

g. Auction: No report.

h. Vehicle (MDARC-1): Jim K6SOE reported that he has the van at his house to fix a problem with ATV which occurred during field day.

i. Communications Trailer; Larry KK6QPE asked Mike Warren W6MEW if he wanted to make any changes to the trailer after he had a “walk and talk group” during Field Day. Mike didn’t think any changes were needed but reported that the aircon unit needs to be repaired. There were no questions for Mike.

j. Field Day: Larry KI6LNB reported that Field Day was successful and that all arrangements worked flawlessly. Dick WM6G is compiling the points for MDARC. Invoices for food that was purchased are still coming in and will be sent to Cathi in a single envelope. Charles supplied all of the necessary power from his Solar Trailer which saved us from purchasing power from the school. There were 4 operators, the Walnut Creek people did a Winlink demonstration, there were getting on the air classes held by Pete Harris and Jim Tittle which had 12 to 14 attendees each, 20 candidates were tested for license upgrades, 17 of which passed, Dick provided publicity for us and recorded attendees coming in, and there were no security issues. Larry stated that if there are no objections, he plans to approach the school to request use of their facilities for next year. Mike W6MEW added a thank you to Terry for the great spread of food. Mike N6JGA complemented Larry for a fantastically organized Field Day. Cal K6VT brought up a discussion on the PACIFICON hospitality bins which someone took to Field Day. It was pointed out that only one had a paper PACIFICON label on it, so it was not clear to whom the containers belonged. After some discussion, Larry KK6QPE undertook to work with Julie to do whatever needs to be done to make it good.

k. License Testing: Larry KI6LNB stated that normal license testing will start again on the 16th and that he has asked VEs to show up at 6pm so that all of the prospective candidates can be processed.

l. Public Service: Larry KK6QPE introduced Lisa Anthony K6PIA who has agreed to take over the public service coordinator position. Larry KK6QPE mentioned that events will be sparse this year.

m. Membership: Jan KM6NFC was not present.

n. Election Committee: a report was not expected.

o. Scholarship: a report was not expected.

p. Radio Lending Library: a report was not expected.

q. 75-year Celebration Committee: Larry KK6QPE introduced Barbara Whysong who has agreed to be on the committee but not to be the chairperson. He noted that she has already made some very good suggestions and asked her to send them out to staff at groups.io. He asked Mike N6JGA to add her to staff@groups.io. Barbara stated that it needs to be decided whether it will be a one and done event or a series of events throughout the year and then what kinds of activities. She asked for feedback from everybody so that a decision can be made on the scope of activities. After a number of options were discussed, Larry decided that the decisions will be made during the August Board Meeting.

9. Future Meetings:

General Meeting 07/16/21 in-person with Zoom option.

Board Meeting 08/02/21 on Zoom only.

10. Unfinished Business:

10.1 July 16, 2021 in-person meeting requirements of Our Savior Lutheran Church (OSLC), Board: Larry KK6QPE stated that he had recently signed a multitude of documents required by OSLC related mostly to COVID Virus related situations.

(continued on following page)

One of the provisions related to their ability to place certain restrictions on any in-person meetings that we may have. Larry said that he had asked Lauren WA6CIE to contact them to see if, in fact, they have imposed any restrictions. He asked Lauren give a report on what he found. Lauren explained that they have formed a reopening committee which has decided that they will follow whatever rules the state and county have established. We are considered, by the committee, to be a smaller group so, aside from set up and take down, the things that we have to do are as follows ensure that at least two of the side glass doors are open during the meeting, we will probably have to unlock a chained second door in the back (if you're facing the back of the room, towards the parking lot), the door to the left will be unlocked and left open. We are not likely to have access to water or kitchen facilities due to work being done in that area over the next few months. This work may limit our space by 10 to 15%. The bathrooms should be available. For this month, the room has been set up and we should leave it as is. The school starts up again in August so it is unclear what we will have to do regarding setup. Larry's takeaway was that there are no restrictions that the church itself is going to impose and asked if there are any restrictions that the board wants to impose. Hearing none, Larry concluded that the board would impose no restrictions but would recommend that people wear masks if they so choose. Larry will send this out over the groups.io reflector. Larry clarified that some members will be involved in setup prior to the meeting and that the meeting will start at 7pm to allow our speaker to leave early to get back to Mill Valley. Cathi asked if the presentation could be recorded, Mike N6JGA said yes it could and Larry agreed to get permission from the presenter.

10.2 General Membership Meeting Zoom option/test report: Larry stated that Mike W6MEW, Lauren WA6CIE and he had done a test at the church and found that it does work but recognized that it will improve with experience.

10.3 Membership Directory: when to be published/submitted. This needs to wait for Jan's return.

10.4 Status report on revising Membership database for processing and tracking payments, status, etc. This needs to wait for Jan's return.

10.5 Implementing MDARC's Document retention policy statement: Larry KK6QPE showed the document "Mount Diablo Amateur Radio Club Record Retention Policy Dated 05/03/2021" and stated that this list of documents, that need to be retained, was approved by the board earlier this year. He stated that we need to decide how to implement the policy. The first point is that the hard copies need to be stored at single repository (probably at Roadies) and that the bylaws state that the Secretary is the keeper of the original documents. Mike W6MEW confirmed that there is a filing cabinet at Roadies. Digital copies would be stored on the Google drive. There was much discussion on what items to retain on the list. Larry KK6QPE said that, as a start we will go to Roadies to do an audit of the filing cabinet.

10.6 MDARC 75th Anniversary; 1/09/22; how do we commemorate this? : This was discussed in 8q above

10.7 Technical Committee report regarding South Peak to North Peak repeater transfer: Cost projection.... energy cost, On hold: Jim K6SOE reported that he is still gathering information on alternatives and that it is a good thing to keep on hold.

10.8 Updating MDARC By-Laws for grammatical and content considerations [on hold until membership can meet in-person].

11. New Business:

11.1 HRO advertisements in the Carrier: Larry KK6QPE asked, what benefit there is, to MDARC, to continue to advertise for HRO in the Carrier, since the company is no longer in the area? It was concluded that Larry KK6QPE would contact HRO to discuss continuation of the ads and to find out what benefits they would offer MDARC in return for the ads.

11.2 Holiday Banquet – need Chair, location discussion: Larry confirmed that we need a chairperson and will contact Misa to see if she still wants to do it this year. Mike N6JGA proposed that the 75th celebration and the banquet could be rolled into one by moving the banquet to a later time. The issue of location was discussed and the board decided to have it at Zio Fraedo's on December 5th.

12. Adjournment

Mike W6MEW, seconded by Cal K6VT, proposed a motion to adjourn. All members voted in favor.
Meeting Adjourned at 8:53 pm

Respectfully submitted by Brian Lotter KM6NGS Secretary, on July 26, 2021
These meeting minutes were signed digitally due to the digital meeting

MDARC General Meeting Minutes July 16, 2021

Held at Zoom online

1. Call to Order: The meeting was called to order at 7:00 pm by the MDARC President Larry Bradley KK6QPE
 - a. The president welcomed all attendees.
 - b. New member: Charles King from the in-person meeting was acknowledged and Robert KI6MGK from Zoom.
 - c. There were no visitors.
 - d. He encouraged attendance at the Board Meeting on 8/2/2021 and stated that Board Meetings will be held on Zoom for the remainder of the year. Due to the absence of any comments, the agenda was deemed to be approved
2. The Pledge of Allegiance will not be made during virtual meetings.
3. Approval of Minutes from the Last Meeting: The minutes of the June meeting were approved.
4. Officer Reports:
 - a. The President had no report other than what he had stated earlier in the meeting.
 - b. The Vice President had no report.
 - c. The Secretary had no report.
 - d. The Treasurer indicated that there would be a raffle for a pie before reading the monthly report for June 2020: MDARC Checking account income \$1,517.31, Expenses \$2,125.75, Monthly Total -\$608.44. Checking account balance as of the end of June \$41,101.19. Total MDARC Checking/Savings \$69,462.70. Equipment self-insurance \$58,194.34, Pacificon \$30,657.55. Total assets \$158,314.59. There were no questions for Cathy K2CJW
 - e. The Emergency Coordinator stated that there was nothing new to report and that he is planning some emergency practice nets with an emphasis on rapid check ins.

The president thanked Trevor Hall WA6JAU for bringing the awards board.
5. Committee Reports – Standing:
 - e. Education and Training; John Primus AF6RJ was on the Zoom portion of the meeting and there was no way to hear his report.
 - f. PACIFICON; Mike N6JGA reported that PACIFICON is going great guns, lots of people are registering, and the vendor chair tells him that most of the booths and tables have been sold. We do need volunteers even if you only have 2 to 4 hours. Our treasurer is doing volunteer coordination so please see her to volunteer. Gordon West and Bob Heil, will be speakers. Kristen McIntyre, K6WX, our AARL Pacific Division Director will deliver the keynote address and it's going to be a great program

1. Field Day; Larry Loomer KI6LNB said that Dick Wade has put together about 1275 points for MDARC for Field Day. We had a very busy Field Day and are planning to go back to the same place next year. There were no questions for Larry KI6LNB Larry KI6LNB also reported that 5 technicians and one general took the test and all of them passed Larry KK6QPE thanked him for his report. There were no other committee reports. Larry KK6QPE asked if anybody had anything to share but nobody had anything to share.

6. Unfinished Business: None

7. New Business: None

8. Adjourn Business meeting: The business portion of the meeting was adjourned at 7:13 pm.

Speaker Introduction by Jan Kulisek KM6NFC: Rob Rowlands NZ6J – The miraculous nano VNA.

Respectfully submitted by, Brian Lotter KM6NGS
Secretary, on August 9, 2021.

California QSO Party



56th Running Of The CQP!

1600 UTC October 2, 2021 to 2200 UTC October 3, 2021



The California QSO Party (CQP) is held every year on the first weekend of October. The first CQP took place in 1966. Since 1974, the Northern California Contest Club has sponsored CQP. CQP has traditionally opened the annual contest season by providing an opportunity for testers to prepare for the ARRL November Sweepstakes since the format is similar.

Stations outside of California, worldwide, work stations in California only. The 58 counties of CA are the multipliers. California stations work all stations in or out of CA. The 50 US states and 8 Canadian call areas are the multipliers. Stations outside of Canada and the US add to one's QSO total but do not count as multipliers.

See the full set of rules at <https://www.cqp.org/Rules.html> for more details.

More on the Northern California Contest Club at <http://www.nccc.cc/>



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- Hybrid SDR Configuration • Unparalleled 70 dB Max. Attenuation VC-Tune • New Generation Scope Display 3DSS • ABI (Active Band Indicator) & MPVD (Multi-Purpose VFO Outer Dial) • PC Remote Control Software to Expand the Operating Range • Includes External Power With Matching Front Speaker



FTDX10 | HF/50MHz 100 W SDR Transceiver

- Narrow Band and Direct Sampling SDR • Down Conversion, 9MHz IF Roofing Filters Produce Excellent Shape Factor • 5" Full-Color Touch Panel w/3D Spectrum Stream • High Speed Auto Antenna Tuner • Microphone Amplifier w/3-Stage Parametric Equalizer • Remote Operation w/optional LAN Unit (SCU-LAN10)



FT-991A | HF/VHF/UHF All Mode Transceiver

Real-time Spectrum Scope with Automatic Scope Control • Multi-color waterfall display • State of the art 32-bit Digital Signal Processing System • 3kHz Roofing Filter for enhanced performance • 3.5 Inch Full Color TFT USB Capable • Internal Automatic Antenna Tuner • High Accuracy TCXO



FTDX101D | HF + 6M Transceiver

- Narrow Band SDR & Direct Sampling SDR • Crystal Roofing Filters Phenomenal Multi-Signal Receiving Characteristics • Unparalleled - 70dB Maximum Attenuation VC-Tune • 15 Separate (HAM10 + GEN 5) Powerful Band Pass Filters • New Generation Scope Displays 3-Dimensional Spectrum Stream



FT-891 | HF+50 MHz All Mode Mobile Transceiver

Rugged Construction in an Ultra Compact Body • Stable 100 Watt Output with Efficient Dual Internal Fans • 32-Bit IF DSP Provides Effective and Optimized QRM Rejection • Large Dot Matrix LCD Display with Quick Spectrum Scope • USB Port Allows Connection to a PC with a Single Cable • CAT Control, PTT/RTTY Control



FTM-300DR | C4FM/FM 144/430MHz Dual Band

- 50W Reliable Output Power • Real Dual Band Operation (V+V, U+U, V+U, U+V) • 2-inch High-Res Full Color TFT Display • Band Scope • Built-in Bluetooth • WiRES-X Portable Digital Mode/Fixed Mode with HRI-200



FT-2980R | Heavy-Duty 80W 2M FM Transceiver

- Massive heatsink guarantees 80 watts of solid RF power • Loud 3 watts of audio output for noisy environments • Large 6 digit backlit LCD display for excellent visibility • 200 memory channels for serious users



FT-818ND | HF/6M/2M/440 All Mode Portable Xcvr

- Ultra-Compact/Portable • Multi-Color Easy to See LCD • 208 Memory Channels/10 Memory Groups • Built-in Electronic Keyer • Internal Battery Operation Capability • Two Antenna Connectors • Built-in High Stability Oscillator ± 0.5 ppm



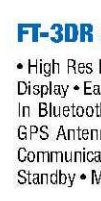
FTM-400XD | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band



FT-70DR C4FM/FM 144/430MHz Xcvr

- System Fusion Compatible • Large Front Speaker delivers 700 mW of Loud Audio Output • Automatic Mode Select detects C4FM or Fm Analog and Switches Accordingly • Huge 1,105 Channel Memory Capacity • External DC Jack for DC Supply and Battery Charging



FT-3DR C4FM/FM 144/430 MHz Xcvr

- High Res Full-Color Touch Screen TFT LCD Display • Easy Hands Free Operation w/Built In Bluetooth Unit • Built-In High Precision GPS Antenna • 1200/9600bps APRS Data Communications • Simultaneous C4FM/C4FM Standby • Micro SD Card Slot



FT-65R | 144/430 MHz Transceiver

Compact Commercial Grade Rugged Design • Large Front Speaker Delivers 1W of Powerful Clear Audio • 5 Watts of Reliable RF Power Within a compact Body • 3.5-Hour Rapid Charger Included • Large White LED Flashlight, Alarm and Quick Home Channel Access



FT-60R | 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan



• **RETAIL LOCATIONS** – Store hours 10:00AM - 5:30PM - Closed Sunday

• **PHONE** – Toll-free phone hours 9:30AM - 5:30PM

• **ONLINE** – WWW.HAMRADIO.COM

• **FAX** – All store locations

• **MAIL** – All store locations

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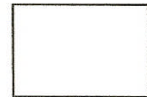
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The Carrier

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P.O. Box 23222
Pleasant Hill, CA 94523
www.mdarc.org



FIRST CLASS

<https://www.facebook.com/mdarc.org>

W6CX Nets

M-F 5:42 am Morning Muster 147.060+ 224.780- 441.325+

M-F 6:10am Commuter Net 147.060+ 224.780- 441.325+

Monday 8:00 pm SATERN Net 147.060+

Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz

Tuesday 8:00pm Digital Practice Net 147.060+ 224.78- 441.325+

Wednesday 7:00 pm SKYWARN Net 147.060+

Thursday 7:30 pm MDARC Club Net 147.060+

Thursday 8:00 pm Digital Amateur Television Net 147.060+

Club FM Repeaters

147.060 MHz + / PL 100Hz

224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz

EchoLink: W6CX-R /133896, IRLP: 3057

<https://www.broadcastify.com/listen/feed/25334>

D-STAR 145.000 offset plus 2.5 MHz

<https://w6cx.dstargateway.org/>

DATV Internet Stream: <http://w6cxatv.mdarc.org/>

YouTube Channel: Media MDARC

Contra Costa County Emergency Communications Nets Every Thursday

6:35 pm HF Countywide 3.893 MHz LSB

6:45 pm West County 145.110-- (82.5 PL)

7:00 pm Central County 145.680 Simplex

7:00 pm East County 146.535 Simplex

7:00 pm South County 147.480 Simplex

7:20 pm Countywide 145.490-- (107.2 PL)

or 147.735-- (107.2 PL)

or 145.410-- (107.2 PL)

Concord Auxiliary Radio Emergency Service (CARES)

Wednesday 8:00pm 147.405 Simplex

Digital Amateur Television Repeater

Digital ATV Output: 1244.500

Digital ATV Inputs: 1292.500, 1273.0, 917.0, 430.0

Analog ATV Input: 1270.000 FM (PL 192.8)

September and October 2021 Club Calendar

Friday September 17, 2021 7:00pm - General Meeting Our Savior's Lutheran Church 1035 Carol Lane, Lafayette
Also available on zoom.us via link sent from groups.io or watch on DATV repeater

Saturday October 2, 2021 8:00am MDARC Technical Committee Meeting - VIA VIDEO CONFERENCE

Monday October 3, 2021 7:00pm - MDARC Board of Directors Meeting - VIA VIDEO CONFERENCE

Friday October 15, 2021 7:00pm - MDARC General Meeting - AT PACIFICON Marriott Hotel Salon E
2600 Bishop Drive San Ramon